

# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERC United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
10/556,358	11/10/2005	Masahiro Makino	050741	6746			
23850 KDATZ OLUM	7590 07/27/2007		EXAMINER				
KRATZ, QUINTOS & HANSON, LLP 1420 K Street, N.W. Suite 400 WASHINGTON, DC 20005			CHAMBERS, TRAVIS SLOAN				
			ART UNIT	PAPER NUMBER			
	,		2833	2833			
			MAIL DATE	DELIVERY MODE			
			07/27/2007	PAPER			

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
	10/556,358	MAKINO, MASAHIRO					
Office Action Summary	Examiner	Art Unit					
	Travis Chambers	2833					
The MAILING DATE of this communication ap							
Period for Reply	VIO DET TO EVEIDE AN	10NTH(0) 0D THEFT (00) DAVIO					
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING Description of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 136(a). In no event, however, may a will apply and will expire SIX (6) MON e, cause the application to become Al	CATION. reply be timely filed  NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 12 J	luly 2007.						
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This	s action is non-final.						
3) Since this application is in condition for allowa	·	• •					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.E	). 11, 453 O.G. 213.					
Disposition of Claims							
4) Claim(s) <u>1-7,10-12,14,16,18 and 20</u> is/are per	nding in the application.						
4a) Of the above claim(s) is/are withdra	wn from consideration.						
5) Claim(s) 3,8,9,13,15,17 and 19 is/are allowed							
6) Claim(s) <u>1-7,10-12,14,16,18 and 20</u> is/are rej	ected.						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	or election requirement.						
Application Papers							
9) The specification is objected to by the Examine	er.						
10)⊠ The drawing(s) filed on 10 November 2005 is/a	are: a)⊠ accepted or b)□	objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correct	•	• • • • • • • • • • • • • • • • • • • •					
11) ☐ The oath or declaration is objected to by the E	xaminer. Note the attache	d Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:	• .	•					
1. Certified copies of the priority documen							
2. Certified copies of the priority documen							
3. Copies of the certified copies of the price		received in this National Stage					
application from the International Burea * See the attached detailed Office action for a list		received					
See the attached detailed Office action for a list	t of the certified copies not	received.					
Attachment(s)							
1) Notice of References Cited (PTO-892)		Summary (PTO-413) (s)/Mail Date					
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO/SB/08)</li> <li>Paper No(s)/Mail Date</li> </ul>		Informal Patent Application					

#### **DETAILED ACTION**

# Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

- -- Claim 1, lines 11-12 "two longitudinal busbars crossing the longitudinal busbars at right angles." For purposes of examination it is unclear if applicant is referring to the same longitudinal busbars or to new second longitudinal busbars. An examination based on the merits, as best understood, is addressed below.
- -- Appropriate correction of the above is required.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 2833

Claims 1,2,4-7,10-12,14,16,18,20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakanishi (6910923) in view of Ozaki et al. (5160274).

In reference to claim 1, Nakanishi teaches a block body (11b;figure 1) having a plurality of connector-fitting chambers (19; figure 2) arranged in a line on one side of the block body (11b; figure 1) and a busbar-receiving part (11; figure 1) communicating with the connector-fitting chambers (19) on an opposite side of the block body (11b; figure 1); a plurality of longitudinal busbars (20, 30 and 32; figure 2), each of which includes at least one branch terminal (21, 31,33; figure 2) projecting in the connector-fitting chamber (19) and at least one pair of clip terminals (end portion of 21, 31a, 33a; figure 1) situated on the side of the busbar-receiving part (11; figure 1); and a plurality of lateral busbars (1b extending from top to bottom; figure 1), each of which includes at least one branch terminal (3 and 4 extending from 2; figure 1) projecting in the connector-fitting chamber (19; figure 2) and a connecting part (near lead line 14b; figure 2) to be connected to the pair of the clip terminals (end portion 21, 31a, 33a) on the side of the busbar-receiving part (11), the lateral busbar (1b extending from top to bottom) being connected to at least two longitudinal busbars (20,30 and 32) crossing the longitudinal busbars (20, 30 and 32) at right angles, wherein the branch terminals (21, 31a, 33a) of the longitudinal busbar (20, 30 and 32) and the branch terminals (3 and 4 extending from 2) of the lateral busbars (1b extending from top to bottom) are arranged in a line in the connector-fitting chambers (19).

However Nakanishi does not teach connector-fitting chambers receiving connectors of at least one outside wiring harness.

Application/Control Number: 10/556,358

Art Unit: 2833

Ozaki teaches connector-fitting chambers (3a; figure 14) receiving connectors (9; figure 14) of at least one outside wiring harness (1; figure 14)

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to use the teaching of Ozaki to improve the invention of Nakanishi.

One skilled in the art would have been motivated to use the teachings of Ozaki because, as taught by Ozaki (Col. 1 line(s) 15-20,43-49), it provides faster assembly by allowing wires to be inserted, connected and removed as a unit.

In reference to claim 2, Nakanishi teaches a plurality of slit grooves (13 and 19a; figure 1) which receives the longitudinal busbar (20, 30 and 32); and a plurality of lateral slits (16a; figure 1), each of which engages with the connecting part (near lead line 14b; figure 2) of the lateral busbar (1b extending from top to bottom), the lateral slit (16a) crossing the slit groove (13 and 19a; figure 1) at right angles.

In reference to claim 4 and 12, Nakanishi teaches the branch terminal (21, 31a and 33a) of the longitudinal busbar (20, 30 and 32) is offset in a direction crossing at right angles from a connection part (near lead line 14b; figure 2) from which the pair of the clip terminals (end portion of 21; figure 1) protrudes, while the branch terminal (3 and 4; figure 1) of the lateral busbar (1b extending from top to bottom; figure 1) is on the same plane as that of the connection part (near lead line 14b; figure 2) of the lateral busbar (1b; figure 1).

In reference to claim 5 and 14, Nakanishi teaches a plurality of ribs are projectingly formed on a partition wall (16c; figure 1) of the connector-fitting chamber (19; figure 2), the rib (16b; figure 2) insulating the branch terminals (2 pertaining to 20

Application/Control Number: 10/556,358

Art Unit: 2833

and near lead line 4 pertaining to 1b; figure 1) of each the longitudinal (20; figure 1) or lateral (1b extending from top to bottom; figure 1) busbar from each other.

In reference to claim 6 and 16, Nakanishi teaches each end of the pair of the clip terminals (end portion of 21, 31a, 33a) protrudes outward (in an outward direction into 17; figure 1) from the busbar-receiving part (11; figure 1).

In reference to claim 7 and 18, Nakanishi teaches a cover (10b; figure 1) is fitted to the block body (11b; figure 1) and each said longitudinal (20, 30, 32) or lateral busbar (1b; figure 1) abuts against the cover (10b; figure 1), thereby preventing each busbar (pertaining to 20,30,32 or 1b) from slipping out.

In reference to claims 10 and 20, Nakanishi teaches the longitudinal (20,30, 32;) or lateral (lb extending from top to bottom; figure 1) busbar is formed.

However, Nakanishi does not teach the recitation "by cutting a laterally linked terminal into a required shape" as a method of forming.

To the extent that the reference does not discuss the method of forming is not germane to receiving patentability. Further the element is seen to be formed the same way.

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to change the method of forming.

One skilled in the art would have been motivated to change the method of forming in order to produce each element faster and for less cost.

In reference to claim 11, Nakanishi shows substantially the invention as claimed.

However Nakanishi does not teach an unnecessary pair of the clip terminal or branch

Application/Control Number: 10/556,358 Page 6

Art Unit: 2833

terminal is cut off from the connecting part of the longitudinal or lateral busbar and/or the connecting part is cut into a required length or cut at a required position.

To the extent that the reference does not discuss an unnecessary pair of the clip terminal or branch terminal is cut off from the connecting part of the longitudinal or lateral busbar and/or the connecting part is cut into a required length or cut at a required position, this is seen to be an obvious modification of the size of the structure of the reference.

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to change the size of the structure of Nakanishi.

One skilled in the art would have been motivated to in order make it easier to distinguish where to install each element and to prevent incorrect insertion of the element.

#### Reasons for Allowance

The	allowed	claims	are :	3,8,	9.	13	15	,17	,19

The following is an examiner's statement of reasons for allowance: The prior art does not show the unique structure of a concave groove is formed in a partition wall of the connector fitting chamber, the cover includes a plurality of ribs against each of which an end of each pair of the clip terminals abuts and an inclined shaped guide surface on the inlet of the groove. This structure, in combination with all the other elements of the

claim is not seen to be anticipated by the prior art and the examiner knows of no permissible motivation to combine the prior art such that the subject matter as a whole would have been obvious at the time the invention was made.

If the application becomes allowable, any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowable Subject Matter".

# Response to Arguments

-- In response to applicant's remarks (page 1, line 8-14) in Papers Dated (07/12/2007) concerning "alleged 'branch terminals', that is (21) and (near lead line 4) of Nakanishi, can not properly be considered to be branch terminals for connecting to a connector....", examiner disagrees. The test for obviousness is not whether the features of one reference may be bodily incorporated into the other to produce the claimed subject matter but simply what the combination of references makes obvious to one of ordinary skill in the pertinent art. In re Bozek, 163 USPQ 545 (CCPA 1969). In particular to the claimed branch terminals of the longitudinal busbar, the assigned branch terminals (21; figure 1) do extend or "branch" from element 22 figure 1 of the longitudinal busbar (20; figure 1). The claimed branch terminal of the lateral bus bar, the assigned branch

Art Unit: 2833

terminal (4; figure 1), as well as element 3; figure 1, of lateral busbar (1b; figure 1) extend or "branch" from element 2; figure 1.

## Conclusion

The prior listed on PTO form 892 that is made of record is considered pertinent to applicant's disclosure because it shows the state of the art with respect to applicant's claimed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Travis Chambers whose telephone number is 571-272-6813. The examiner can normally be reached on Monday-Friday 8am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula Bradley can be reached on 571-272-2001. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/556,358

Art Unit: 2833

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Page 9

Travis Chambers TC 7/20/2007

> /James Harvey/ James Harvey Primary Examiner